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APPLICANT : MATERIAL DESIGN:KK;

INVENTOR : AMAMIYA YASUHIRO;

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TITLE : PHOTOSTIMULABLE PHOSPHOR COMPOSITION, LAMP AND LAMP DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a photostimulable phosphor which has a long after glow life and excellent adhesion to substrates and forms a afterglow emitter having high heat resistance by mixing an activator-containing aluminate compound with an alkali metal silicate compound.

SOLUTION: A photostimulable phosphor comprising an activatorcontaining aluminate compound is mixed with a binder comprising an alkali metal silicate compound. The activator which can be used is exemplified by one made of at least one element selected among rare earth elements, Mn, Sn, and Bi. The binder is desirably lithium silicate, sodium silicate or potassium silicate. For the approach of the coefficients of thermal expansion, it is desirable that this composition contains an inorganic filler. It is also possible that the composition contains a waterproofing agent or contains a suspending agent.

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